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Meeting Minutes Transmittal/Approval
Unit Managers' Meeting: Remedial Action and Waste Disposal Unit/Source Operable Unit
3350 George Washington Way, Room 2A01, Richland, Washington
February 19, 1998

FROM/APPROVAL: Nancy Werdel Date 3/19/98
Nancy Werdel/Glen Goldberg, 100 Area Unit Managers, RL (H0-12)

APPROVAL: Keith R. Holliday Date 3-19-98
Wayne Soper/Keith Holliday, 100 Aggregate Area Unit Manager, Ecology
(B5-18)

APPROVAL: Dennis Faulk Date 3-19-98
Dennis Faulk, 100 Aggregate Area Unit Manager, EPA (B5-01)

APPROVAL: David E. Olson Date 4-7-98
David Olson, 100-N Area Unit Manager, RL (H0-12)

APPROVAL: Bryan Foley Date 4-7-98
Bryan Foley, 200 Area Unit Manager, RL (H0-12)

APPROVAL: N/A (did not attend) Date _____
Joan Bartz/Shri Mohan, 200 Aggregate Area Unit Managers, Ecology
(B5-18)

APPROVAL: Ted A. Wooley Date 3/19/98
Ted A. Wooley, 200-B Area Project Manager

APPROVAL: Robert G. McLeod Date March 19, 1998
Robert G. McLeod, 300 Area Unit Manager, RL (H0-12)

APPROVAL: N/A (did not attend) Date _____
Jeanne Wallace, 300 Area Aggregated Area Unit Manager,
WA Dept of Ecology (B5-18)

APPROVAL: David R. Einan Date 19 Mar 98
David R. Einan, 300 Area Aggregated Unit Manager, EPA (B5-01)

APPROVAL: Ted A. Wooley Date 3/19/98
Ted A. Wooley, 300 Area Process Trenches Subproject Manager



Meeting minutes are attached. Minutes are comprised of the following:

Attachment #1 -	Agenda
Attachment #2a, 2b, and 2c -	Attendance Records
Attachment #3 -	Meeting Minutes
Attachment #4 -	Status Package
Attachment #5	100 Area WIDS Sites Not on the Remaining Sites List
Attachment #6	Annotated Outline of Borehole Summary Report for the 216-B-2-2 Ditch
Attachment #7	Prototype Barrier Monitoring and Testing Activities
Attachment #8	Schedule Indicating Substeps of 618-4 Burial Ground Remediation

Prepared by:

Michelle Peterson

Date

4/7/98

Michelle Peterson (H0-10)/Tamen Rodriguez (H0-17)

Concurrence by:

Vern Dronen

Date

4/7/98

Vern Dronen, BHI Remedial Action and Waste Disposal Project Manager
(H0-17)

UNIT MANAGERS' MEETING AGENDA
3350 George Washington Way, Room 1B45
February 19, 1997

057689

1:00 p.m. – 300 Area

- Lead-Contaminated Soil from Landfill 1D (LDR issues)
- Finalizing Remediation at 300 Area Process Trenches
- Status of 618-4 Burial Ground Remediation
- Target Dates for TPA Milestones M-16-03C and M-16-03D
- 300-FF-2 Status of 300 Area Revitalization Plans
- 300-FF-2 Groundwater Sample Disposition

2:00 p.m. – 200 Areas

- Status of 216-B-2-2 Ditch Borehole Results
- Status of 200 Area Implementation Plan
- Status of Hanford Prototype Barrier Testing

2:30 p.m. - 100 Areas

Remedial Action

- 116-C-1 Protection of Groundwater and River Analysis - Updated Status
 - Mass Balance Considerations Using RESRAD
 - Antimony (Sb) Supplemental Laboratory Test Results
 - Precedence/Regulatory Issues Regarding Compliance Period for Protection of the River, for Residual Metal/Chemical COCs in Soils
- Summary Discussion of February 19 Meeting with Ecology
- 107-D4 Waste Site Within 116-D7 Identified Plum
- 116-DR-9 Closure for Shallow Standpipes Adjacent to Perimeter Wall
- RAGs for Groundwater in the RDR/RAWP Based Upon the NBS/MPC (EPA Action-Feedback)

100 Area Assessments

- 100 Area Remaining Sites - AR Document/proposed Plan Review Status (Known Issues: Cost Estimate Upper Bounds Basis, and PP Level of Detail)
- 100 Area Remaining Sites - Alignment of 100 Area Remaining Sites and K-Basins Project
- 100 Area Remaining Sites - Appendix C Update Status
- Ecology Review of 100-D Ponds Revised Closure Plan Status
- EPA Partial Delisting of 100-IU-1 and 100-IU-3 Status

Remedial Action and Waste Disposal Unit Managers' Meeting

Official Attendance Record, 100 Areas

February 19, 1998

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MEETING MINUTES

REMEDIAL ACTION AND WASTE DISPOSAL
UNIT MANAGERS' MEETING – 100 AREA
February 19, 1998

Attendees: See Attachment #2a.

Agenda: See Attachment #1 for copy of meeting agenda.

Topics of Discussion:

Remedial Action

1. 116-C-1 Protection of Groundwater and River Analysis (Updated Status) — The following areas of the 116-C-1 analysis were discussed:

- *Mass Balance Considerations Using RESRAD* — It was reported that the RDR/RAWP default method utilizes nondispersion. The mass balance option is RESRAD was used in selected runs to compare with recent nondispersion runs. The mass balance runs peaked higher and are earlier than the nondispersion runs; but in both cases, the groundwater MCLs are exceeded. An Argonne National Laboratory hydrologist is coming the week of February 23, 1998, to evaluate these results and provide general consultation on the use of the RESRAD computer model. F. Corpuz mentioned that preliminary discussions are being held regarding the use of other groundwater modeling techniques, and all concurred that this should not be initiated yet.
- *Antimony (Sb) Supplemental Laboratory Test Results* — It was reported that the antimony results (utilizing lower detection limit methods) were lower than the initial round of testing for Sb from the test pit. The resulting RESRAD analyses were below MCLs for groundwater, which is the same MCL for the Columbia River. Hence, the groundwater and river RAGs are met for Sb.

The current RESRAD results for mercury (Hg) and lead (Pb) indicate that Hg potentially impacts groundwater at 800 years, and Pb potentially impacts groundwater at 500 years.

- *Precedence/Regulatory Issues Regarding Compliance Period for Protection of the River, for Residual Metal/Chemical COCs in Soil* — No Hanford Site precedence was found on this issue, and the origin of the 1,000-year time frame is considered to be RESRAD's computational capability for a long time frame. There appears to be no precedence or guidance for determining the time period to use when modeling the risk from residual metals/chemicals. EPA stated that the RAGs for groundwater and the river have essentially been met, taking into consideration all of the uncertainties in the RESRAD modeling, particularly for periods hundreds of years from now. Additional discussion ensued regarding how this would specifically be stated, and where and how this conclusion would be applied to the other liquid effluent waste sites in the 100 Areas. The group agreed to keep this discussion open with no conclusions yet. EPA and Ecology will try to find additional information on ARARs related to this issue.

2. Summary Discussion of February 19 Meeting with Ecology (107-D-4 Waste Site Within 116-D-7 Identified Plume, and 116-DR-9 Closure for Shallow Standpipes Adjacent to Perimeter Wall) – BHI will work with RL to look at WIDS regarding closing out a waste site within a waste site. RL will check with DOE-HQ regarding required reporting format for site closeouts, and whether or not a modification to the current draft of the WIDS process would be adequate, in lieu of a formalized verification report. It was proposed that the WIDS process could simply note that remedial action was completed and that closeout verification would be performed concurrently with an adjacent waste site. Currently, the status of the verification for closeout of a “site within a site” is pending. The shallow standpipe issue at 116-DR-9 was not discussed at the UMM. Refer to the separately issued meeting minutes (February 19, 1998, meeting with EPA and Ecology) for discussion of both of these topics.
3. RAGs for Groundwater in the RDR/RAWP Based Upon the NBS/MPC (EPA Action-Feedback) — EPA and Ecology were receptive to the idea of modifying those groundwater MCLs based upon the outdated NBS/MPC standards and going to either the DOE/DCG or EPA/ALI method. EPA and Ecology would like to see technical backup showing the calculations. BHI took the action item to provide this technical backup as a medium priority.

100 Area Assessments

1. 100 Area Remaining Sites (AR Document/Proposed Plan Review Status (Known Issues: Cost Estimate Upper Bounds Basis, and PP Level of Detail)) – EPA has provided information comments to RL disagreeing with the methodology used by RL to develop the \$88 million cost estimate presented in the Remaining Sites Proposed, Draft A. EPA requested that RL revisit the cost-estimating methodology for Rev. 0.

EPA and Ecology plan to meet to discuss regulatory agency review comments on the AR document and Proposed Plan (Draft A versions of both documents). A date for the meeting has not yet been established but is anticipated in late February. After the meeting, the combined EPA and Ecology review comments will be presented to RL for incorporation and production of Rev. 0.
2. 100 Area Remaining Sites (Alignment of 100 Area Remaining Sites and K Basins Project) – Discussions concerning the proposed alignment of schedules for the 100 Areas Remaining Sites and K-Basin projects are in progress. More details are expected to become available within the next week.
3. 100 Area Remaining Sites (Appendix C Update) – It was acknowledged that 39 sites in the 100 Areas have been nominated to the WIDS since the Remaining Sites lists for each reactor area (except for 100-N Area) were “frozen” between late July and early October 1997. The cutoff dates for sites currently listed in Appendix C (and in the Remaining Sites documents) do not include the 39 sites that have subsequently been nominated to WIDS. RL indicated that the 39 new sites (see Attachment #5) are beyond the current work scope and, if required by EPA and Ecology to be added, would necessitate approval of a Baseline Change Proposal. EPA agreed that these new (discovery process) sites do not need to be included by specific reference in the AR Document or associated Proposed Plan.

4. Ecology Review of 100-D Ponds Revised Closure Plan Status – Review of the closure plan is currently in process within Ecology. Technical review comments are not yet available. *Deletion*
5. EPA Partial Delisting of 100-IU-1 and 100-IU-3 Status – EPA indicated that work on partial delisting is proceeding. EPA requested that RL provide electronic (or scanned) copies of 100-IU-1 and 100-IU-3 Operable Unit closeout documentation. RL indicated that the documents will be provided within a week.

Underground storage tanks have recently been identified at waste site 600-57, Bruggeman's Fruit Stand. More information will be provided on the tanks as it becomes available and a strategy will be developed on how to address this finding as partial delisting proceeds.

**REMEDIAL ACTION AND WASTE DISPOSAL
UNIT MANAGERS' MEETING – 200 AREA
February 19, 1998**

Attendees: See Attachment 2b.

Agenda: See Attachment #1 for copy of meeting agenda.

Topics of Discussion:

1. Status of 216-B-2-2 Ditch Borehole Results – Drilling activities were completed in January 1998. Analytical results from the soil samples have started to come back from the laboratory. After all analytical data have been received, the data will be summarized in a report to be issued as a BHI document. An annotated outline of the report (Attachment #6) was provided. This document will capture the data/results of the drilling and is not planned to include a regulator review cycle. Ecology, as the lead regulatory agency, will have the opportunity to review and comment on this and future results when the results are published in the 200-CW-1 RI report (to be developed after all characterization work is completed for 200-CW-1). Ecology requested to review the outline to see if their data-reporting expectations are met. The report is expected to be finalized by the end of April 1998.
2. Status of 200 Area Implementation Plan – An annotated outline is nearly ready in a final draft format and will be sent out for review. A meeting with EPA is scheduled for February 25, 1998.
3. Status of Hanford Prototype Barrier Testing – In general, a reduced level of monitoring and testing is being performed in FY 1998. No FY 1999 funding is currently identified, which may impact other programs (e.g., TWRS) that rely on the data.

The 1997 Barrier Report was issued. FY 1998 monitoring and testing activities were reviewed (Attachment #7). Good comprehensive data have been collected during the past three years, and a reduced level of testing and monitoring were considered appropriate for FY 1998.

Civil survey and biointrusion monitoring will remain unfunded for FY 1998 but may be undertaken in FY 1999.

**REMEDIAL ACTION AND WASTE DISPOSAL
UNIT MANAGERS' MEETING – 300 AREA
February 19, 1998**

Attendees: See Attachment 2c.

Agenda: See Attachment #1 for copy of meeting agenda.

Topics of Discussion:

1. Lead-Contaminated Soil from Landfill 1D (LDR Issues) – A draft letter was prepared asking for variance; BHI has calculated rough cost estimates ranging from \$400,000 to \$600,000 to treat the material (which basically is for grouting).

EPA would like to know what other options are available for disposing of the lead-contaminated soil, so various options (e.g., capping in place, disposal at ERDF with treatment, and disposal at ERDF without treatment) will be examined.

EPA would like information on the rad levels present and may need to see more samples taken and data results to support a variance application. It was noted that the contamination did not leach into the ground at Landfill 1D; discussion ensued regarding the impacts of disposing waste with these elevated levels of lead into the ERDF.

The EPA Tox versus TCLP tests were discussed and whether or not the results would lead to similar results between the two tests. J. James will research and find out additional information.

2. Finalizing Remediation at the 300 Area Process Trenches – The sampling results are back, and the hot spot is <350 pCi/g (actually in the low 100s). The data are currently going through the validation process and will become part of the verification package that is being compiled.

There are currently six remaining drums at the site. All verification samples within the unit are below cleanup levels, and the only remaining item prior to closeout involves dispositioning the six drums. Ecology is currently trying to decide if the "geologic media" within these drums is eligible for a contained-in determination so the drums can be disposed of in the ERDF.

The target date for finalizing the verification package is March 31, 1998. Ecology indicated that they would like to look at the regarding plans as part of their review.

Ecology reviewed the Class 3-1 change RCRA package and concurs with the wording. R. Carlson compiled five permit modification forms (3 old, and 2 new that were disclosed at an earlier UMM). BHI will formally submit the five permit modification forms to Ecology, and Ecology will formally respond.

3. Status of 618-4 Burial Ground Remediation – A schedule was handed out to show the substeps of the remediation (see Attachment #8). Level B Personnel Protection is currently being utilized at the site.

Material is being moved faster than was initially planned. No abnormal debris has been found to date. Some large hoppers have been found during excavation, and a debris storage area has been started, where material will be cut up and sized for disposal at ERDF. At this point, digging is matching the GPR, and RI data is being used as a guide. However, there is a larger amount of contaminated soil than was anticipated. The contaminated soil is being packaged and sent to ERDF.


4. Target Dates for TPA Milestones M-16-03C and M-16-03D – BHI is sending a draft letter to RL regarding milestones to be reconsidered (i.e., the 100 Area plumes and the 300 Area milestones). The letter will be in advance of the 110-day notification period required for discussion of those milestones. The milestone for the 618-4 Burial Ground report (M-16-03C) needs to have the date extended to fit current schedule, or the scope needs to be redefined to allow for completion within the existing time frame.
5. 300-FF-2 Status of 300 Area Revitalization Plans – The meeting that was scheduled for February 19, 1998, was cancelled and is rescheduled for February 26. RL would like to discuss the implementation of the ROD and the Proposed Plan at a future meeting with the group to discuss FY 1999 funding for 300-FF-2 (including naming the sites and what efforts/actions are required and the cost). RL, Ecology, and EPA will meet the week of February 23, 1998, to discuss FY 1999 funding issues.
6. 300-FF-2 Groundwater Sample Disposition – The remaining liquids from groundwater samples taken during FY 1997 that were not used during analysis were disposed of at the 200 Area Effluent Treatment Facility on February 11, 1998. Results from samples taken in January 1998 should be received on about March 9. The disposal of these samples and future samples will be performed in a manner similar the sampling that was just completed.

STATUS PACKAGE
UNIT MANAGERS' MEETING - MARCH 1998
SOURCE OPERABLE UNITS

100-B/C, 100-K, 100-D, 100-H, 100-F

200 AREAS

300 AREA

 Prepared by DOE-RL

03/19/98

100 AREAS

100 Area Burial Ground Focused Feasibility

Feasibility studies are underway. Current activities involve development and internal review of draft report sections for Sections 1 through 5 on background information and the nature and extent of contamination, as well as technology screening and alternative development.

100 Area Remaining Sites

Draft A of the Administrative Record document and the Proposed Plan for the Remaining Sites project were submitted to EPA and Ecology on December 23, 1997, for a 45day technical review period. The agency's review is concurrent with the RL review cycle. Written review comments from the regulatory agencies to RL were expected by February 6, 1998.

Informal comments that were received from EPA on February 20, 1998, requested that RL revise the methodology used to develop total costs presented in the AR Document and Proposed Plan.

At the February 20, 1998, meeting, it was decided that if the Remaining Sites project incorporated the 100-KE and 100-KW fuel storage basins into the Remaining Sites, then the schedules for the Proposed Plan, public comment, and ROD preparation would no longer be aligned with the K-Basins project schedule, which is managed by the Project Hanford Management Contractor, Fluor Daniel Hanford, Inc.

100-D Area Soil Sampling

Laser-induced breakdown spectroscopy, an emerging technology for characterizing subsurface soils, is planned for use in the 100-D Area to detect chromium. Mobilization to Hanford is planned for late April 1998

100-D Ponds Closure Plan Revision

Ecology's written comments to RL on the revised closure plan were received on March 9, 1998. RL has 60 days to respond to the comments and prepare a final revision to the document. Comment responses and the final revisions are due to Ecology by May 9, 1998.

Partial Delisting of 100-IU-1 and 100-IU-3 Operable Units

Activities for partial delisting of the 100-IU-1 and 100-IU-3 operable units from the National Priorities List are being performed by EPA with support, as requested, from RL.

Group 3 Sites

A procurement strategy was developed, and a bid package for the Group 3 sites is being prepared. The bid package will also include the remediation of the remaining 100-B/C effluent pipelines.

Remedial Design Report/Remedial Action Work Plan

Regulator comments to the 100 Area RDR/RAWP, Rev. 1, Draft C, have been received. Responses have been prepared and will be presented and discussed at a meeting with the regulators on March 12, 1998.

100-B/C Remedial Action

Excavation at the 116-C-5 Retention Basins is essentially completed. Results of MRDS (radiation field screening) indicates apparent minor lateral plumes to the north and south of the basin areas. The plume area to the south appears to be associated with inlet pipe leakage. These plumes are a subject item for discussion at the March 1998 UMM. ERC is currently developing estimated volumes, subcontract strategy, etc., for handling these plumes.

ERC has begun work on application of the 116-C-1 vadose zone test pit data to the 116-C-5 vadose zone, including seeking consultation from Argonne National Laboratory, developer of the RESRAD model.

Excavation/concrete demolition work and waste shipment to the ERDF is in progress at the 116-B-11 Retention Basin waste site. Total duration of this activity extends approximately to the end of FY 1998.

The 100-B/C and -D contaminated lead waste stream is scheduled for delivery and grout macroencapsulation at ERDF the week of March 9, 1998. EPA has reviewed and concurred on the method of macroencapsulation.

Draft meeting minutes from the December 1997, 100 Area Remedial Action Site Closeout process meetings with RL and the regulatory reviewers have been transmitted to the regulators for review/concurrence.

RESRAD computer runs and associated calculations for the 116-C-1 site for protection of groundwater and the Columbia River, utilizing information from the 116-C-1 test pit, are essentially completed. Remaining issues, as reported at the February UMM, for attainment of remedial action goals are lead and mercury MCLs in groundwater being exceeded hundreds of years from completion of remediation. EPA has an action item to evaluate ARAR considerations with respect to the time frame for compliance of groundwater and Columbia River RAGs for metal/chemical COCs. In addition, ERC is working with Argonne National Laboratory regarding refinements in the RESRAD analysis and laboratory input parameters.

100-DR Remedial Action

Remedial excavation of overburden and concrete basin construction debris at the 116-D-7 and 116-DR-9 basins is ongoing and will continue through approximately the end of FY 1998 for 116-D-7, and beyond FY 1998 for 116-DR-9.

Remedial excavation of the 107-D-1 and 107-D-5 Sludge Pits is completed, and the closeout process is well underway. The 107-D-5 closeout report is near completion, with target submittal to RL scheduled for March 1998. Work on the 107-D-1 closeout report will begin soon.

Remedial excavations of the 107-D-2, 107-D-3, and 107-D-4 Sludge Pits and the 1607-D2 abandoned tile field are essentially at or near completion, with closeout process/determination of other action(s) in progress.

A proximity site south of the 107-D-5 Sludge Trench was recently discovered and reported to RL and Ecology. The site will be entered into the WIDS database and added to the remedial action work for the 100-D Group 2 Sites as a proximity/discovery site.

100-N Area Remedial Action Decision Documents

The five 100-N Area Remedial Action documents (i.e., the 100-NR-1 TSD CMS and Proposed Plan, the 100-NR-1 and 100-NR-2 CMS and Proposed Plan, and the 100-N Area Ancillary Facilities EE/CA) will be finalized and ready for submittal to the regulators by the end of February 1998. The public comment period for these documents is scheduled from March 16 through April 29, 1998. The public hearing is planned for April 2, 1998.

200 AREAS

200 Areas Strategy/Implementation Plan

The Tri-Party Agreement Change Package was signed by DOE and has been transmitted to Ecology and EPA for their signatures. The workshops to develop the scope of the 200 Area Implementation Plan are continuing, with a draft team review scheduled from May 8, 1998.

200-BP-1 Operable Unit

The barrier-testing program continues to provide data on water infiltration, vegetation growth, and biointrusion associated with the Hanford Site barrier.

200-CW-1 Operable Unit

The analytical results for the drilling and sampling activities associated with the borehole at the 216-B-2-2 Ditch have been received. A borehole summary report is being prepared to document the results.

Nonradioactive Dangerous Waste Landfill (NRDWL)

Responses to Ecology comments on the soil-gas results report for NRDWL were revised. RL will transmit these revised comments to Ecology in the near future.

300 AREA

300-FF-1 Operable Unit

Process Trenches

Preparation of the verification package continues. This package will document that modified closure to MTCA C industrial cleanup standards have been met. Work also continues on the closure by removal package and inspection, maintenance, and monitoring plan. The previous two documents are being prepared to (1) change the type of closure and (2) modify the post-closure care requirements because of the very low concentration of remaining RCRA contaminants in the trenches.

Landfill 1D

A treatability variance request is being prepared for transmittal to EPA for the lead-contaminated soils excavated from the landfill. The project is also nearing the completion of a plan for addressing the other waste streams unearthed at the landfill.

Burial Ground 618-4

Excavation at the burial ground is proceeding under Level B PPE. Mostly uranium-contaminated, discolored soil and soil-like materials have been excavated to date. However, numerous anomalies have been unearthed and are being segregated and sampled for proper identification for waste designation and disposition. Based on ground-penetrating radar surveys performed during the remedial investigation, it is expected that a much larger percentage of metallic debris will be excavated from the burial ground during the next month.

300-FF-2 Operable Unit

Disposal of FY 1997 groundwater sample residuals was completed on February 11, 1998, with transfer of the liquids from Quanterra Environmental Services to the 200 Area Effluent Treatment Facility. A similar approach will be followed for all subsequent sampling events.

The last of the analytical results from the January 1998 groundwater sampling wells at 699-S6-E4A and 699-13-3A were received by ERC Sample and Data Management staff on March 6. A copy of the results is being prepared for transmittal to project staff for evaluation.

With regard to the December 1999 TPA milestone concerning the 300 Area, discussions are underway to confirm the required scope associated with that milestone, and to determine the potential impacts to scope, schedule, and budget.

100 Area WIDS Sites Not On the Remaining Sites List

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February 2, 1998

Operable Unit	WIDS Site Code	Site Names	Site Type	Site Classification Status
100-BC-1	100-B-11	100-B-11, 115-B/C Caisson Site	Storage Tank	Accepted
100-BC-1	600-230	600-230, RCRA General Inspection 200WFFY97 Item #4 Historic Disposal Site	Dumping Area	Accepted
100-BC-1	600-231	600-231, RCRA General Inspection 200WFFY97 Item #5 Historic Disposal Site	Dumping Area	Rejected
100-BC-1	600-253	600-253, Gravel Pit #24	Depression/Pit (nonspecific)	Rejected
100-BC-2	600-232	600-232, 100B Electrical Laydown Area	Dumping Area	Accepted
100-BC-2	600-233	600-233, Vertical Pipe Near 100B Electrical Laydown Area	Storage Tank	Rejected
100-BC-2	600-252	600-252, Old Tank from RCRA General Inspection #LORIVFY97 Item #8	Dumping Area	Rejected
100-DR-1	100-D-56	100-D-56, 100-D Area Sodium Dichromate Underground Supply Lines	Product Piping	Accepted
100-DR-2	100-D-54	100-D-54, Drywell Near Fire Facility Gravel Scrubber	French Drain	Accepted
100-DR-2	100-D-55	100-D-55, Gravel Pit #21	Depression/Pit (nonspecific)	Rejected
100-FR-2	100-F-35	100-F-35, Soil Contamination Area inside the 105-F Exclusion Area	Unplanned Release	Accepted
100-HR-1	100-H-30	100-H-30, 110-H Sanitary Sewer Trench	Trench	Accepted
100-HR-2	100-H-32	100-H-32, 184-H Brine Pit French Drain	French Drain	Accepted
100-IU-1	600-142	600-142, Car Body at McGee Ranch Fish Farm	Dumping Area	Accepted
100-IU-1	600-67	600-67, Bruggemann's Fruit Storage Warehouse	Storage	Rejected
100-IU-2	600-234	600-234, RCRA General Inspection 200WFFY97 Item #11 Historic Disposal Site	Dumping Area	Rejected
100-IU-3	600-104	600-104, USBR, USBR 2.4-D Burial Site, USBR-2.4-D	Burial Ground	Accepted
100-IU-6	600-153	600-153, Dumping Area Between River Mile Markers 29 and 30	Dumping Area	Rejected
100-IU-6	600-239	600-239, Debris in Pit 16, Hanford Aggregate Pit Debris, 615 Hot Mix Plant Debris	Dumping Area	Rejected
100-IU-6	600-240	600-240, Debris in Pit 17, Hanford Aggregate Pit Debris, 615 Hot Mix Plant Debris	Dumping Area	Rejected
100-IU-6	600-250	600-250, Metal Debris from RCRA General Inspection #LORIVFY97 Item #4	Dumping Area	Rejected
100-IU-6	600-251	600-251, Steel Pipe from RCRA General Inspection #LORIVFY97 Item #6	Dumping Area	Rejected
100-KR-1	100-K-57	100-K-57, 107-KE Drainage Ditch	Ditch	Accepted
100-KR-1	100-K-63	100-K-63, 100-KW Floodplain, 100-K Flood Plain Contamination Area	Unplanned Release	Accepted
100-KR-1	100-K-64	100-K-64, 100-KE Floodplain, 100-KE Flood Plain Contamination Area	Unplanned Release	Accepted

100 Area WIDS Sites Not On the Remaining Sites List

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February 2, 1998

Operable Unit	WIDS Site Code	Site Names	Site Type	Site Classification Status
100-KR-2	100-K-58	100-K-58, 100-KE Water Treatment Facilities Underground Pipelines	Process Sewer	Discovery
100-KR-2	100-K-59	100-K-59, 100-KW Water Treatment Facilities Underground Pipelines	Process Sewer	Discovery
100-KR-2	100-K-61	100-K-61, 117-KW Filter Building	Process Unit/Plant	Accepted
100-KR-2	100-K-62	100-K-62, 117-KE Filter Building	Process Unit/Plant	Accepted
100-KR-2	100-K-66	100-K-66, 165-KW Power Control Building	Control Structure	Accepted
100-KR-2	100-K-67	100-K-67, 165-KE Power Control Building	Control Structure	Accepted
100-KR-2	100-K-68	100-K-68, 105-KE Pump Gallery and Catch Tank, D Sump	Catch Tank	Discovery
100-KR-2	100-K-69	100-K-69, 105-KE Sump "C"	Sump	Discovery
100-KR-2	100-K-70	100-K-70, 105-KE Waste Storage Tank, Holding Tank	Storage Tank	Discovery
100-KR-2	100-K-71	100-K-71, 105-KE Collection Box	Diversion Box	Discovery
100-KR-2	100-K-72	100-K-72, 105-KW Pump Gallery and Catch Tank, D Sump	Catch Tank	Discovery
100-KR-2	100-K-73	100-K-73, 105-KW Collection Box	Diversion Box	Discovery
100-KR-2	100-K-74	100-K-74, 105-KW Waste Storage Tank, Holding Tank	Storage Tank	Discovery
100-KR-2	100-K-75	100-K-75, 105-KW Sump "C"	Sump	Discovery
TOTAL NEW SITES:			39	

Borehole Summary Report for the 216-B-2-2 Ditch

Draft Outline

BHI Report

1.0 INTRODUCTION (overview as in DOW: ~2 pages text)

Purpose and scope of borehole summary report

Summarize the scope and results of the 216-B-2-2 borehole activity. The focus will be on presenting results with minimal interpretation; no extrapolation/comparison with other nearby well data)

Purpose and scope of borehole

The purpose of the borehole was to provide analogous data for the 200-CW-1 Waste Site Group. Data will be used to support the DQO process for the group. Additional characterization needs will be defined in the group-specific work plan.

Other:

History of 216-B-2-2 Ditch

Borehole Location

Figure showing location of ditch and location of borehole

Hydrogeologic Setting

Figure showing "regional" hydrogeologic column

Summary of Data Quality Objectives (focusing on sampling objectives with reference to DOW for complete list and additional details)

2.0 FIELD ACTIVITIES AND SAMPLING (Overview of activities: ~5 pages text)

2.1 Trenching

2.2 Drilling (including abandonment)

Figure showing geology and drilling rate (feet per day)

Table summarizing drilling (start, end, TD, coordinates, elevation, # chemical and radiological samples, # physical samples)

Table summarizing radiological field screening of drive barrels

Summary of industrial health field screening

Summary of number of waste drums

2.3 Sampling

Table summarizing depth, sample type, rationale, planned vs. actual sampling, deviations from planned sampling

Table summarizing prioritization of sampling

2.4 Geophysical Logging

3.0 RESULTS (~5 pages text)

3.1 Geological

Figure of geological results

3.2 Chemical (with emphasis on Sr-90)

Table summarizing depth, HEIS #, results including duplicates (results only, not derived results)

3.3 Radiological

Table summarizing depth, HEIS #, results including duplicates

Table summarizing field screening of split spoon samples

3.4 **Physical**

Table summarizing depth, HEIS #, Type A results including duplicates

Table summarizing depth, HEIS #, Type B results including duplicates

3.5 **Geophysical Logging**

3.6 **QA/QC**

Table summarizing QA/QC sampling results

4.0 **SUMMARY AND CONCLUSIONS (~3 pages text)**

Distribution of Contamination under B-2-2 Ditch

Consistency with Waste Site Group conceptual model

Achievement of sampling objectives

Vertical profile illustrating relationship of gamma emitting radionuclides, spectral gamma logging, geology

Vertical profile illustrating relationship of moisture content, bulk density, neutron logging, geology (particle size)

5.0 **REFERENCES**

APPENDIX A: Documentation of Trenching Activity

APPENDIX B: Documentation of Drilling Activity

Borehole Summary Report

As-Built Diagram

Geologic Log

Civil Survey Report

APPENDIX C: Report on Geophysical Logging

APPENDIX D: Summary of Analytical Results (tables)

Chemical

Radiological

Physical

Prototype Barrier Monitoring and Testing Activities

<u>Tasks</u>	<u>FY 1998 Scope</u>
Water Balance Measurements	Ambient treatment only Monthly vertical neutron probe measurements Bimonthly horizontal neutron probe measurements Bimonthly water balance evaluations Daily drainage and precipitation measurements
Wind Erosion	Surface gravel content sampling
Water Erosion and Stability	Annual Civil survey (unfunded)
Biointrusion Monitoring	Plant mapping/cover analysis (unfunded) Plant variability/species changes Animal burrow characterization
Water Storage Verification	Neutron and HDU measurement verif./calib.
Reporting	Finalize FY 97 Report Summary Letter Report

Activity ID	Activity description	% CPT	Orig Dur	RESP	FY97 A S O N D J F M A M J J A S												FY98 O N D		
EM-50 DEMONSTRATION PROGRAM (LIBS)																			
1291	Develop Uranium Calc. Curves	100	13	LIBS	08OCT97A ██████████ 07NOV97A														
1293	Project on Hold	61	43	LIBS	07NOV97A ██████████ 10APR98														
1296	ARA/SEA Mobilize To Hanford	0	5	LIBS	13APR98* 17APR98														
1297	Hanford Site Orientation Training	0	2	LIBS	20APR98* 21APR98														
1298	300 Area Field Testing	0	3	LIBS	22APR98 24APR98														
1299	Prepare Technology Memorandum	0	24	APRIL	27APR98 29MAY98														
NON-SITE SPECIFIC																			
1250	Project Construction Management	36	251	JAMES	01OCT97A ███														

Project Start 28AUG95 Early Bar
 Project Finish 30SEP98 Target Bar
 Data Date 09FEB98 Progress Bar
 Run Date 15FEB98 Critical Activity

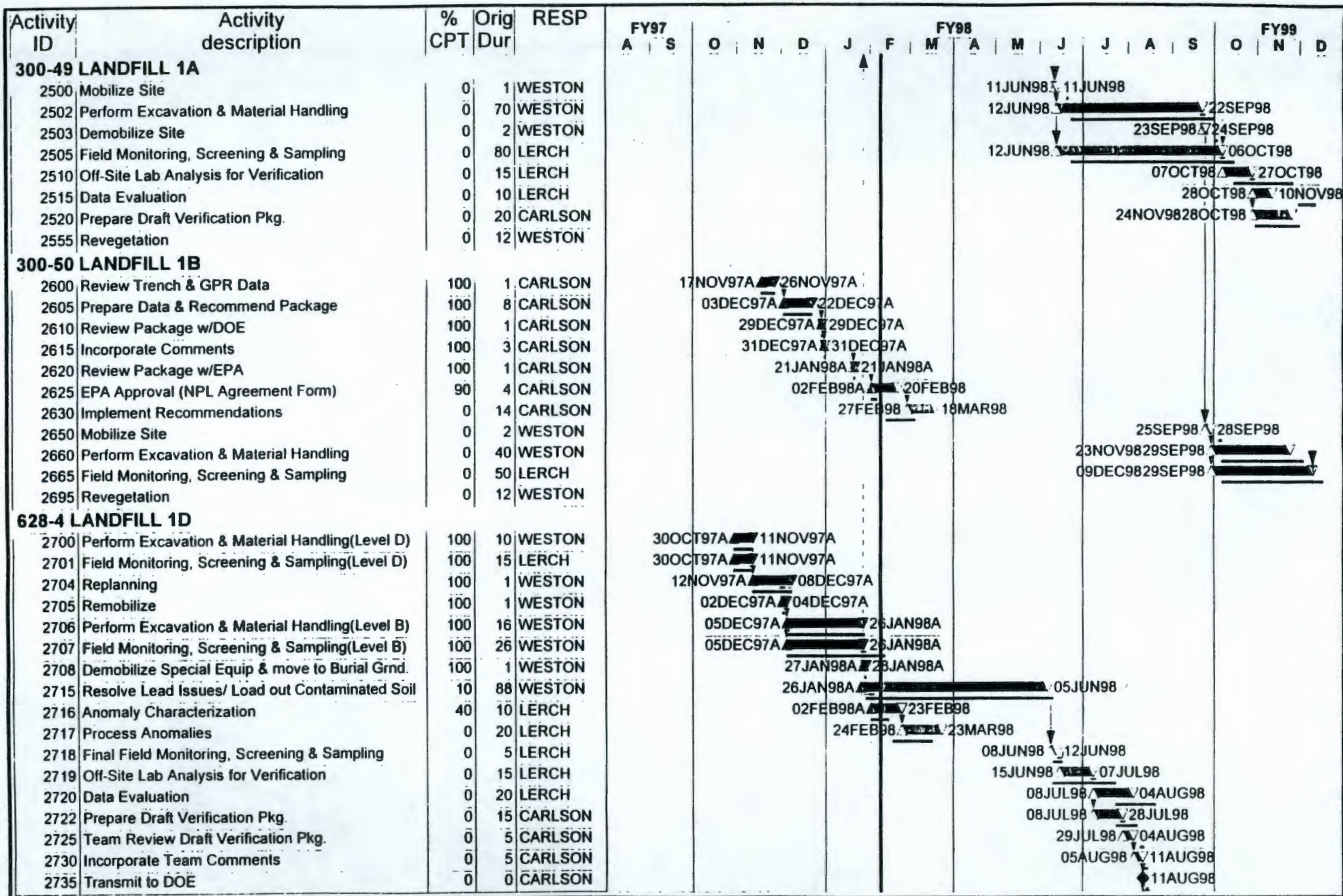
300C

300 AREA REMEDIAL ACTION
 300-FF-1
 STATUS AS OF February 09, 1998

Sheet 1 of 5

Date _____ Revision _____
 Checked _____ Approved _____

Activity ID	Activity description	% CPT	Orig Dur	RESP	FY97												FY98												FY99																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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057689

Distribution
Unit Managers' Meeting: Remedial Action Unit/Source Operable Units
100, 200, and 300 Areas

057689

Nancy Werdel.....	DOE-RL, RP (H0-12)
Mike Thompson.....	DOE-RL, RP (H0-12)
Glenn Goldberg.....	DOE-RL, RP (H0-12)
Owen Robertson.....	DOE-RL, RP (H0-12)
Bryan Foley.....	DOE-RL, RP (H0-12)
Robert McLeod.....	DOE-RL-RP (H0-12)
Ellen Mattlin.....	DOE-RL, EAP (A5-15)
Steve Balone.....	DOE-RL, RPS (H0-12)
Lisa Treichel.....	DOE-HQ (EM-442)
Dennis Faulk.....	100 Aggregate Area Manager, EPA (B5-01)
David Einan.....	EPA (B5-01)
Larry Gadbois.....	EPA (B5-01)
Phil Staats.....	100 Aggregate Area Manager, WDOE (B5-18)
Joan Bartz.....	WDOE (Kennewick) (B5-18)
David Holland.....	WDOE (Kennewick) (B5-18)
Keith Holliday.....	WDOE (Kennewick) (B5-18)
Shri Mohan.....	WDOE (Kennewick) (B5-18)
Wayne Soper.....	WDOE (Kennewick) (B5-18)
Ted Wooley.....	WDOE (Kennewick) (B5-18)
Chuck Cline.....	WDOE (Lacey)
Lynn Albin.....	Washington Dept. of Health
V. R. Dronen.....	BHI (H0-17)
J. R. James.....	BHI (H0-17)
T. L. Rodriguez.....	BHI (H0-17)
M. R. Peterson.....	BHI (H0-10)
J. G. Woolard.....	BHI (H0-17)
R. L. Donahoe.....	BHI (X9-06)
F. M. Corpuz.....	BHI (X9-06)
G. B. Mitchem.....	BHI (H0-17)
G. E. Van Sickle.....	BHI (T2-05)
R. A. Carlson.....	BHI (L6-06)
W. E. Remsen.....	BHI (H0-17)
A. L. Langstaff.....	BHI (X3-40)
L. C. Hulstrom.....	CHI (H9-03)
A. P. Goforth.....	BHI DCC (H0-09)
T. M. Wintczak.....	BHI (H0-11)

Please inform Tamen Rodriguez (372-9562) - BHI
of deletions or additions to the distribution list.